

Fundamentals of Power Electronics

Robert W. Erickson  
Dragan Maksimović

# Fundamentals of Power Electronics

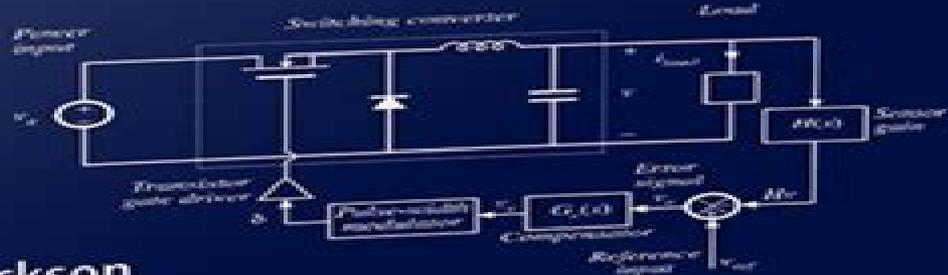
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Power Electronics Handbook Muhammad H. Rashid, 2010-07-19 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency Power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25% new content Reorganized and revised into 8 sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission *Advanced Solutions in Power Systems* Mircea Eremia, Chen-Ching Liu, Abdel-Aty Edris, 2016-10-03 Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement transmission capability enhancement and operation planning The book is organized into three parts The first part describes the CSC HVDC and VSC HVDC technologies the second part presents the FACTS devices and the third part refers to the artificial intelligence techniques All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements Discusses detailed operating principles and diagrams theory of modeling control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems from planning and monitoring to operation and control Each chapter is carefully edited with drawings and illustrations that helps the reader to easily understand the principles of operation or application *Advanced Solutions in Power Systems HVDC FACTS and Artificial Intelligence* is written for graduate students researchers in transmission and distribution networks and power system operation This book also serves as a reference for professional software developers and practicing engineers

**Fundamentals of Power Electronics** Robert W. Erickson, Dragan Maksimovic, 2007-05-08 *Fundamentals of Power Electronics* Second Edition is an up to date and authoritative text and reference book on power electronics This new edition retains the original objective and philosophy of focusing on the fundamental principles models and technical requirements needed for designing practical power electronic systems while adding a wealth of new material Improved features of this new edition include A new chapter on input filters showing how to design single and multiple section filters Major revisions of material on averaged switch modeling low harmonic rectifiers and the chapter on AC modeling of the discontinuous conduction mode New material on soft switching active clamp snubbers zero voltage transition full bridge converter and auxiliary resonant commutated pole Also new sections on design of multiple winding magnetic and resonant inverter design

Additional appendices on Computer Simulation of Converters using averaged switch modeling and Middlebrook's Extra Element Theorem including four tutorial examples and Expanded treatment of current programmed control with complete results for basic converters and much more This edition includes many new examples illustrations and exercises to guide students and professionals through the intricacies of power electronics design Fundamentals of Power Electronics Second Edition is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first year graduate students interested in converter circuits and electronics control systems and magnetic and power systems It will also be an invaluable reference for professionals working in power electronics power conversion and analogue and digital electronics

*Digital Control of High-Frequency Switched-Mode Power Converters* Luca Corradini, Dragan Maksimovic, Paolo Mattavelli, Regan Zane, 2015-07-10 This book is focused on the fundamental aspects of analysis modeling and design of digital control loops around high frequency switched mode power converters in a systematic and rigorous manner Comprehensive treatment of digital control theory for power converters Verilog and VHDL sample codes are provided Enables readers to successfully analyze model design and implement voltage current or multi loop digital feedback loops around switched mode power converters Practical examples are used throughout the book to illustrate applications of the techniques developed Matlab examples are also provided

**Introduction to Electric Power and Drive Systems** Paul C. Krause, Oleg Wasynczuk, Timothy O'Connell, Maher Hasan, 2017-02-28 An introduction to the analysis of electric machines power electronic circuits electric drive performance and power systems This book provides students with the basic physical concepts and analysis tools needed for subsequent coursework in electric power and drive systems with a focus on Tesla's rotating magnetic field Organized in a flexible format it allows instructors to select material as needed to fit their school's power program The first chapter covers the fundamental concepts and analytical methods that are common to power and electric drive systems The subsequent chapters offer introductory analyses specific to electric machines power electronic circuits drive system performance and simulation and power systems In addition this book Provides students with an analytical base on which to build in advanced follow on courses Examines fundamental power conversions dc/dc ac/dc and dc/ac harmonics and distortion Describes the dynamic computer simulation of a brushless dc drive to illustrate its performance with both a sinusoidal inverter voltage approximation and more realistic stator six step drive applied voltages Includes in chapter short problems numerous worked examples and end of chapter problems to help readers review and more fully understand each topic

*Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control* Weidong Xiao, 2021-02-05 Explore the latest power electronics principles practices and applications This electrical engineering guide offers comprehensive coverage of design modeling simulation and control for power electronics The book describes real world applications for the technology and features case studies worked out in both MATLAB and Simulink Presented in an accessible style Power Electronics Step by Step Design Modeling Simulation and Control focuses on the latest technologies

such as DC based systems and emphasizes the averaging technique for both simulation and modeling You will get photos diagrams flowcharts graphs equations and tables that illustrate each topic Circuit components Non isolated DC DC conversion Power analysis DC to single phase AC conversion Single phase AC to DC conversion Galvanic isolated DC DC conversion Power conversion for three phase AC Bidirectional power conversion Averaging model for simulation Dynamic modeling of DC DC converters Regulation of voltage and current Proceedings of the ... International Symposium on Power Semiconductor Devices and ICs ,2004 *Proceedings of the ... Intersociety Energy Conversion Engineering Conference* ,2002 **Book Review Index** ,2002 Fundamentals of Power Electronics Erickson,2013-06-29 In many university curricula the power electronics field has evolved beyond the status of comprising one or two special topics courses Often there are several courses dealing with the power electronics field covering the topics of converters motor drives and power devices with possibly additional advanced courses in these areas as well There may also be more traditional power area courses in energy conversion machines and power systems In the breadth vs depth tradeoff it no longer makes sense for one textbook to attempt to cover all of these courses indeed each course should ideally employ a dedicated textbook This text is intended for use in introductory power electronics courses on converters taught at the senior or first year graduate level There is sufficient material for a one year course or at a faster pace with some material omitted for two quarters or one semester The first class on converters has been called a way of enticing control and electronics students into the power area via the back door The power electronics field is quite broad and includes fundamentals in the areas of Converter circuits and electronics Control systems Magnetics Power applications Design oriented analysis This wide variety of areas is one of the things which makes the field so interesting and appealing to newcomers This breadth also makes teaching the field a challenging undertaking because one cannot assume that all students enrolled in the class have solid prerequisite knowledge in so many areas *Cumulative Book Index* ,1998 A world list of books in the English language **Subject Guide to Books in Print** ,1993 *Books in Print* ,1991 **The Publishers' Trade List Annual** ,1969 Books in Print Supplement ,1985 **Whitaker's Books in Print** ,1998 *Scientific and Technical Books and Serials in Print* ,1989 Scientific and Technical Books in Print ,1972 **El-Hi Textbooks in Print** ,1981 **Fundamentals of Power Electronics** Robert W. Erickson, Dragan Maksimović,2020-07-14 Fundamentals of Power Electronics Third Edition is an up to date and authoritative text and reference book on power electronics This new edition retains the original objective and philosophy of focusing on the fundamental principles models and technical requirements needed for designing practical power electronic systems while adding a wealth of new material Improved features of this new edition include new material on switching loss mechanisms and their modeling wide bandgap semiconductor devices a more rigorous treatment of averaging explanation of the Nyquist stability criterion incorporation of the Tan and Middlebrook model for current programmed control a new chapter on digital control of switching converters major new chapters on advanced techniques of

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